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DATE MAILED: 03/29/2006

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/844,251	(4/27/2001	Richard H. Morrison JR.	NU-541XX	8919
207	7590	03/29/2006		EXAM	INER
	•	HURGIN, GAGN	ROJAS, BERNARD		
TEN POST (BOSTON, N				ART UNIT	PAPER NUMBER
ŕ				2832	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Comment	09/844,251	MORRISON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Bernard Rojas	2832	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by static Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a reply of will apply and will expire SIX (6) MONTH: ute, cause the application to become ABAN	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 01	March 2006.		
	nis action is non-final.		
3) Since this application is in condition for allow		s, prosecution as to the merits is	
closed in accordance with the practice under	•	•	
Disposition of Claims			
4) Claim(s) 12-15 and 20 is/are pending in the	application.		
4a) Of the above claim(s) is/are withdo			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>12,15 and 20</u> is/are rejected.			
7)⊠ Claim(s) <u>13 and 14</u> is/are objected to.			
8) Claim(s) are subject to restriction and	/or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) a		the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre	÷ , ,		
11) The oath or declaration is objected to by the	· · ·	- · ·	
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for foreig	an priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	5 p	(. , (. , (. , .)	
1.☐ Certified copies of the priority docume	nts have been received.		
2. Certified copies of the priority docume		lication No	
3. Copies of the certified copies of the pr	, ,		
application from the International Bure	-	ū	
* See the attached detailed Office action for a li		ceived.	
Attachment(s)		(DTO 445)	
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Sum Paper No(s)/N	nmary (PTO-413) fail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	8) 5) Notice of Infor	mal Patent Application (PTO-152)	
Paper No(s)/Mail Date 5. Patent and Trademark Office	6) Other:		

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to the pending claims have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 12 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Harnden, Jr. et al. [US 4,755,706].

Claim 12, Harnden, Jr. et al. discloses a process for preparing a contact on a microswitch, the process reducing a resistance of the microswitch and maintaining a low resistance of the microswitch for many cycles, comprising: (a) forming the microswitch contact with a predetermined material [figure 11]I; (b) temporarily exposing the microswitch contact to a fluid to lower a contact resistance; wherein the fluid comprises materials selected from the group consisting of oxygen, carbon tetrafluoride, sulfur

hexafluoride or other fluorine-containing gases, argon and mixtures thereof [col. 1 lines 28 to 41].

Claim 20, Harnden, Jr. et al. discloses a semiconductor package having a semiconductor die [1118] connected to external pins [figure 11], the die including an active area; a microswitch formed on a surface of the die, wherein a microswitch contact is formed with a process for reducing a resistance of the microswitch and maintaining a low resistance of the microswitch for many cycles, comprising: (a) forming the microswitch contact with a predetermined material; (b) temporarily exposing the microswitch contact to a fluid to lower a contact resistance [col. 1 lines 28 to 41].

Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kim [US 6,300,152] in view of Zavracky [US 5,638,946].

Claim 15, Kim discloses a process for preparing a contact [410, 320] on a microswicth [figure 6] comprising temporarily exposing the contact to an oxygen plasma to reduce contact resistance [col. 5 lines 44 to 49].

Kim fails to teach that contact formation includes Ru.

Zavracky discloses a microswitch [figure 2a] with a contact formation that includes Ru [col. 9 lines 23 to 27].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Ru for the contact electrodes of Kim since it is a well known contact material as disclosed by Zavracky [col. 9 lines 23 to 27].

Allowable Subject Matter

Claims 13 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Rojas whose telephone number is (571) 272-1998. The examiner can normally be reached on M-F 8-4:00), every other Friday off.

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SPE-AMOSZ 03/4/16

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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